# Translation

## PATENT COOPERATION TREATY

# **PCT**



# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

International application No.	FOR FURTHER ACTION  SeeNotificationofTransmittalofInternational Prelimin Examination Report (Form PCT/IPEA/416)				
PCT/JP2003/002420	International filing date (day/month/year)  Priority date (day/month/year)  O3 March 2003 (03 03 2002)				
International Patent Classification (IPC) o H01L 29/792	r national classification and IPC				
Applicant	SHARP KABUSHIKI KAISHA				
This international preliminary examand is transmitted to the applicant a					
2. This REPORT consists of a total of4 sheets, including this cover sheet.					
This report is also accompan amended and are the basis for 70.16 and Section 607 of the	ied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have bee rethis report and/or sheets containing rectifications made before this Authority (see Rul Administrative Instructions under the PCT).				
<ol> <li>This report contains indications relat</li> <li>Basis of the report</li> </ol>	ing to the following items:				
II Priority					
	foninian				
IV Lack of unity of inve	f opinion with regard to novelty, inventive step and industrial applicability				
	ander Article 35(2) with regard to novelty, inventive step or industrial applicability;				
VI Certain documents cit	ed				
	international application				
VIII Certain observations of	on the international application				
tte of submission of the demand	Date of completion of the				
31 July 2003 (31.07.200	Date of completion of this report  27 November 2003 (27.11.2003)				
me and mailing address of the IPEA/JP	Authorized officer				
simile No. m PCT/IPEA/409 (cover sheet) (July 1998)	Telephone No.				



International application No.

PCT/JP2003/002420

I. Bas	is of the report	
I. Wi	th regard to the elements of the international application:*	
	the international application as originally filed	
	the description:	
	pages	as originally filed
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	pages, filed with the letter of	, med with the demand
	the claims:	
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لــا	the drawings:	
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	the sequence listing part of the description:	
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Thes	tregard to the language, all the elements marked above were available or furnished to this Aunternational application was filed, unless otherwise indicated under this item. The elements were available or furnished to this Authority in the following language the language of a translation furnished for the purposes of international search (under Rule 23 the language of publication of the international application (under Rule 48.3(b)). The language of the translation furnished for the purposes of international preliminary examor 55.3).	which is:
B. With prelim	regard to any nucleotide and/or amino acid sequence disclosed in the international minary examination was carried out on the basis of the sequence listing:  contained in the international application in written form.	application, the international
	filed together with the international application in computer readable form.	
	furnished subsequently to this Authority in written form.	
	furnished subsequently to this Authority in computer readable form.	
	The statement that the subsequently furnished written sequence listing does not go international application as filed has been furnished.	beyond the disclosure in the
LJ	The statement that the information recorded in computer readable form is identical to th been furnished.	e written sequence listing has
	The amendments have resulted in the cancellation of:	-
	the description, pages	
	the claims, Nos.	
	the drawings, sheets/fig	ì
. 🔲	This report has been established as if (some of) the amendments had not been made, since th beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	ey have been considered to go
and 70	cement sheets which have been furnished to the receiving Office in response to an invitation u s report as "originally filed" and are not annexed to this report since they do not cond ).17).	tain amendments (Rule 70.16
* Any re	placement sheet containing such amendments must be referred to under item 1 and annexed to	this report.

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

atement			
Novelty (N)	Claims	6, 10	YES
	Claims	1-5, 7-9, 11-13	NO
Inventive step (IS)	Claims	6	YES
	Claims	1-5, 7-13	NO
Industrial applicability (IA)	Claims	1-13	YES
•	Claims		NO

#### 2. Citations and explanations

Document 1: US, 6335554, B1 (Toshiba Corp.), 1 January, 2002 (01.01.02)

Document 2: JP, 63-204770, A (Oki Electric Industry Co., Ltd.), 24 August, 1988 (24.08.88)

Document 3: US, 4881108, A (Toshiba Corp.), 14 November, 1989 (14.11.89) Document 4: US, 5838041, A (Toshiba Corp.), 17 November, 1998 (17.11.98) Document 5: US, 6329247, B1 (NEC Corp.), 11 December, 2001 (11.12.01) Document 6: US, 6316317, B1 (NEC Corp.), 13 November, 2001 (13.11.01)

The subject matters of claims 1-5, 7-9 and 11-13 do not appear to be novel or to involve an inventive step, since they are described in document 1 (columns 6-8), document 2 (pages 3-5), document 3 (columns 1-6) and document 4 (columns 4-10) respectively cited in the ISR.

The subject matter of claim 10 does not appear to involve an inventive step in view of documents 1-4, document 5 (columns 2-5) and document 6 (columns 6-11) respectively cited in the ISR. A person skilled in the art could have easily employed the constitution described in document 5 or 6 in which the thickness of a gate insulating film of a memory transistor is thicker than the thickness of a gate insulating film of a selected transistor, in the gate insulating films of any of documents 1-4.

The subject matter of claim 6 is neither described in any of the documents cited in the ISR nor obvious to a person skilled in the art.

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lional application No.

VI. Certain documents cited  1. Certain published documents (Rule 70.10)						
JP 2	2002-164446 A [E, X]	07.06.02	02.11.00	12.09.00		

2. Non-written disclosures (Rule 70.9)

Kind of non-written disclosure

Date of non-written disclosure (day/month/year)

Date of written disclosure referring to non-written disclosure (day/month/year)

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